

```

SSSSSSSSSSSSSS   UUU           UUU   MMM           MMM
SSSSSSSSSSSSSS   UUU           UUU   MMM           MMM
SSSSSSSSSSSSSS   UUU           UUU   MMM           MMM
SSS              UUU           UUU   MMMMMM        MMMMMM
SSS              UUU           UUU   MMMMMM        MMMMMM
SSS              UUU           UUU   MMMMMM        MMMMMM
SSS              UUU           UUU   MMM           MMM   MMM
SSS              UUU           UUU   MMM           MMM   MMM
SSS              UUU           UUU   MMM           MMM   MMM
SSS              UUU           UUU   MMM           MMM   MMM
SSSSSSSSSSSS   UUU           UUU   MMM           MMM
SSSSSSSSSSSS   UUU           UUU   MMM           MMM
SSSSSSSSSSSS   UUU           UUU   MMM           MMM
SSS              UUU           UUU   MMM           MMM
SSS              UUU           UUU   MMM           MMM
SSS              UUU           UUU   MMM           MMM
SSS              UUU           UUU   MMM           MMM
SSS              UUU           UUU   MMM           MMM
SSS              UUU           UUU   MMM           MMM
SSSSSSSSSSSSSS   UUUUUUUUUUUUUUUUU   MMM           MMM
SSSSSSSSSSSSSS   UUUUUUUUUUUUUUUUU   MMM           MMM
SSSSSSSSSSSSSS   UUUUUUUUUUUUUUUUU   MMM           MMM

```

[illegible]

```
SSSSSSSS  UU      UU  MM      MM  SSSSSSSS  HH      HH  RRRRRRRR
SSSSSSSS  UU      UU  MM      MM  SSSSSSSS  HH      HH  RRRRRRRR
SS      UU      UU  MMMM  MMMM  SS      HH      HH  RR      RR
SS      UU      UU  MMMM  MMMM  SS      HH      HH  RR      RR
SS      UU      UU  MM  MM  MM  SS      HH      HH  RR      RR
SSSSSSS  UU      UU  MM      MM  SSSSSS  HHHHHHHHHH  RRRRRRRR
SSSSSSS  UU      UU  MM      MM  SSSSSS  HHHHHHHHHH  RRRRRRRR
SS      UU      UU  MM      MM  SS      HH      HH  RR      RR
SS      UU      UU  MM      MM  SS      HH      HH  RR      RR
SS      UU      UU  MM      MM  SS      HH      HH  RR      RR
SSSSSSSS  UUUUUUUUUU  MM      MM  SSSSSSSS  HH      HH  RR      RR
SSSSSSSS  UUUUUUUUUU  MM      MM  SSSSSSSS  HH      HH  RR      RR
```

```
MM      MM  AAAAAA  PPPPPPPP
MM      MM  AAAAAA  PPPPPPPP
MMMM  MMMM  AA      AA  PP      PP
MMMM  MMMM  AA      AA  PP      PP
MM  MM  MM  AA      AA  PP      PP
MM  MM  MM  AA      AA  PPPPPPPP
MM  MM  MM  AA      AA  PPPPPPPP
MM  MM  AAAAAAAAAA  PP
MM  MM  AAAAAAAAAA  PP
MM  MM  AA      AA  PP
MM  MM  AA      AA  PP
MM  MM  AA      AA  PP
MM  MM  AA      AA  PP
```


! Image Section Synopsis !

<u>Cluster</u>	<u>Type</u>	<u>Pages</u>	<u>Base Addr</u>	<u>Disk VBN</u>	<u>PFC</u>	<u>Protection and Paging</u>	<u>Global Sec. Name</u>	<u>Match</u>	<u>Majorid</u>	<u>Minorid</u>
ROSECT	3	12	00000000-R	2	0	READ ONLY				
RWSECT	2	1	00001800-R	14	0	READ WRITE COPY ON REF				
DEFAULT_CLUSTER	3	1	00001A00-R	15	0	READ ONLY				

Key for special characters above:

```

+-----+
| R - Relocatable |
| P - Protected   |
+-----+

```

! Program Section Synopsis !

Psect Name	Module Name	Base	End	Length	Align	Attributes
\$\$VECTOR_SUM	SUM\$TRVEC	00000000 00000000	00000045 00000045	00000046 () 00000046 ()	70.) PAGE 9 70.) PAGE 9	PIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC
SUM\$CODE	SUM\$LIST	00000048 00000048	000000BDE 000001CD	000000B97 () 00000186 ()	2967.) LONG 2 390.) LONG 2	PIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC
	SUM\$OPEN	000001D0	000002C3	000000F4 ()	244.) LONG 2	
	SUM\$EDIT	000002C4	00000AB5	000007F2 ()	2034.) LONG 2	
	SUM\$ERROR	00000AB8	00000BDE	00000127 ()	295.) LONG 2	
SUM\$RO_DATA	SUM\$LIST	00000BE0 00000BE0	00000C03 00000BE8	00000024 () 00000009 ()	36.) LONG 2 9.) LONG 2	PIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC
	SUM\$OPEN	00000BEC	00000BF4	00000009 ()	9.) LONG 2	
	SUM\$EDIT	00000BF8	00000BFF	00000008 ()	8.) LONG 2	
	SUM\$ERROR	00000C00	00000C03	00000004 ()	4.) LONG 2	
_LIB\$CODE	LIB\$VM	00000C04 00000C04	000015D9 00000E67	000009D6 () 00000264 ()	2518.) LONG 2 612.) LONG 2	PIC,USR,CON,REL,GBL, SHR, EXE, RD,NOWRT,NOVEC
	LIB\$SIGNAL	00000E68	00000F43	000000DC ()	220.) LONG 2	
	LIB\$TPARSE	00000F44	0000155E	0000061B ()	1563.) LONG 2	
	LIB\$CVT_ATB	00001560	000015D9	0000007A ()	122.) LONG 2	
_LIB\$KEY0\$	SUM\$EDIT	000015DA 000015DA	000015DA 000015DA	00000000 () 00000000 ()	0.) WORD 1 0.) WORD 1	PIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC
_LIB\$KEY1\$	SUM\$EDIT	000015DA 000015DA	000015DA 000015DA	00000000 () 00000000 ()	0.) WORD 1 0.) WORD 1	PIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC
_LIB\$STATES	SUM\$EDIT	000015DA 000015DA	000016C0 000016C0	000000E7 () 000000E7 ()	231.) BYTE 0 231.) BYTE 0	PIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC
SUM\$GLOBAL	SUM\$DATA	00001800 00001800	00001857 00001857	00000058 () 00000058 ()	88.) LONG 2 88.) LONG 2	NO PIC,USR,CON,REL,GBL,NOSHR,NOEXE, RD, WRT,NOVEC
SUM\$RW_DATA	SUM\$LIST	00001858 00001858	000018C4 00001873	0000006D () 0000001C ()	109.) LONG 2 28.) LONG 2	NO PIC,USR,CON,REL,GBL,NOSHR,NOEXE, RD, WRT,NOVEC
	SUM\$OPEN	00001874	00001874	00000000 ()	0.) LONG 2	
	SUM\$EDIT	00001874	000018C3	00000050 ()	80.) LONG 2	
	SUM\$ERROR	000018C4	000018C4	00000001 ()	1.) LONG 2	
_LIB\$DATA	LIB\$VM	000018C8 000018C8	00001907 00001907	00000040 () 00000040 ()	64.) LONG 2 64.) LONG 2	NO PIC,USR,CON,REL,GBL,NOSHR,NOEXE, RD, WRT,NOVEC
_LIB\$PARSE_KEY0	LIB\$TPARSE	00001A00 00001A00	00001A00 00001A00	00000000 () 00000000 ()	0.) WORD 1 0.) WORD 1	PIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC
_LIB\$PARSE_STATE	LIB\$TPARSE	00001A00 00001A00	00001AAB 00001AAB	000000AC () 000000AC ()	172.) WORD 1 172.) WORD 1	PIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC


```

+-----+
! Symbol Cross Reference !
+-----+

```

Symbol	Value	Defined By	Referenced By ...
LIB\$SGL_FREVM_C	00001900-R	LIB\$VM	
LIB\$SGL_GETVM_C	000018FC-R	LIB\$VM	
LIB\$SGL_VMINUSE	00001904-R	LIB\$VM	
LIB\$IDENT_KEY_TABLE	00001A00-R	LIB\$TPARSE	
LIB\$IDENT_STATE_TABLE	00001A40-R	LIB\$TPARSE	
LIB\$SUIC_KEY_TABLE	00001A00-R	LIB\$TPARSE	
LIB\$SUIC_STATE_TABLE	00001A00-R	LIB\$TPARSE	
LIB\$CVT_DTB	00001569-R	LIB\$CVT_ATB	LIB\$TPARSE
LIB\$CVT-HTB	00001577-R	LIB\$CVT_ATB	LIB\$TPARSE
LIB\$CVT_OTB	00001570-R	LIB\$CVT_ATB	LIB\$TPARSE
LIB\$FREE_VM	00000D8E-R	LIB\$VM	SUM\$OPEN
LIB\$GET_VM	00000C04-R	LIB\$VM	SUM\$LIST
LIB\$SIGNAL	00000E6E-R	LIB\$SIGNAL	SUM\$ERROR
LIB\$STOP	00000E68-R	LIB\$SIGNAL	
LIB\$TPARSE	00000F64-R	LIB\$TPARSE	SUM\$EDIT
LIB\$BADBLOADR	00158264	LIB\$MSGDEF	LIB\$VM
LIB\$BADBLOSIZ	0015826C	LIB\$MSGDEF	LIB\$VM
LIB\$FATERRLIB	0015820C	LIB\$MSGDEF	LIB\$VM
LIB\$INSVIRMEM	00158214	LIB\$MSGDEF	LIB\$VM
LIB\$INVTYP	0015828C	LIB\$MSGDEF	LIB\$TPARSE
LIB\$SYNTAXERR	00158284	LIB\$MSGDEF	LIB\$TPARSE
MER_KEY	000015DA-R	SUM\$EDIT	
MER_STATE	000015DA-R	SUM\$EDIT	
RM\$S_EOF	0001827A	RM\$SGLOBALS	SUM\$ERROR
RM\$S_FNF	00018292	RM\$SGLOBALS	SUM\$ERROR
SUM\$BLSIZE	00001854-R	SUM\$DATA	SUM\$OPEN
SUM\$CLOSE	00000A7D-RU	SUM\$EDIT	SUM\$OPEN
SUM\$CLOSE_ERR	00000AD4-RU	SUM\$ERROR	
SUM\$FAB	00001804-R	SUM\$DATA	SUM\$OPEN
SUM\$INIT_CMND	000002C8-RU	SUM\$EDIT	SUM\$TFRVEC
SUM\$INIT_EDIT	000002C4-RU	SUM\$EDIT	SUM\$TFRVEC
SUM\$LIB_ERR	00000B8C-RU	SUM\$ERROR	SUM\$EDIT
SUM\$LINE	0000054A-RU	SUM\$EDIT	SUM\$TFRVEC
SUM\$LIST_PARAM	0000011D-RU	SUM\$LIST	SUM\$TFRVEC
SUM\$LIST_QUAL	000000B0-RU	SUM\$LIST	SUM\$TFRVEC
SUM\$OPEN	000001D0-RU	SUM\$OPEN	SUM\$TFRVEC
SUM\$OPEN_ERR	00000AB8-RU	SUM\$ERROR	SUM\$EDIT
SUM\$READ_ERR	00000AE2-RU	SUM\$ERROR	SUM\$EDIT
SUM\$SET_SIGNAL	00000BD1-RU	SUM\$ERROR	SUM\$TFRVEC
SUM\$UPDATE_QUAL	00000048-RU	SUM\$LIST	SUM\$TFRVEC
SUM\$VIRT_ADDR	00001800-R	SUM\$DATA	SUM\$EDIT
SUM\$WRITE_ERR	00000AF9-RU	SUM\$ERROR	SUM\$TFRVEC
SY\$ASCTOD	7FFEE4B0	SY\$P1_VECTOR	LIB\$TPARSE
SY\$CLOSE	7FFEE1B8	SY\$P1_VECTOR	SUM\$EDIT
SY\$CONNECT	7FFEE1C0	SY\$P1_VECTOR	SUM\$EDIT
SY\$DISCONNECT	7FFEE1D0	SY\$P1_VECTOR	SUM\$EDIT
SY\$EXPREG	7FFEDF48	SY\$P1_VECTOR	LIB\$VM
SY\$FILESCAN	7FFEE278	SY\$P1_VECTOR	LIB\$TPARSE

Symbol	Value	Defined By	Referenced By ...
SYSS\$FIND	7FFEE170	SYSS\$P1_VECTOR	SUM\$EDIT
SYSS\$GET	7FFEE180	SYSS\$P1_VECTOR	SUM\$EDIT
SYSS\$OPEN	7FFEE208	SYSS\$P1_VECTOR	SUM\$EDIT
SYSS\$PUTMSG	7FFEE0E0	SYSS\$P1_VECTOR	SUM\$ERROR
SYSS\$REWIND	7FFEE210	SYSS\$P1_VECTOR	SUM\$EDIT
SYSS\$SETAST	7FFEDFF8	SYSS\$P1_VECTOR	LIB\$VM
SYSS\$SRCHANDLER	7FFEE118	SYSS\$P1_VECTOR	LIB\$SIGNAL
			SUM\$OPEN

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PS

```

+-----+
! Symbols By Value !
+-----+

```

Value	Symbols...		
-----	-----		
00000048	R-SUM\$UPDATE_QUAL		
000000B0	R-SUM\$LIST_QUAL		
0000011D	R-SUM\$LIST_PARAM		
000001D0	R-SUM\$OPEN		
000002C4	R-SUM\$INIT_EDIT		
000002C8	R-SUM\$INIT_CMND		
0000054A	R-SUM\$LINE		
00000A7D	R-SUM\$CLOSE		
00000AB8	R-SUM\$OPEN_ERR		
00000AD4	R-SUM\$CLOSE_ERR		
00000AE2	R-SUM\$READ_ERR		
00000AF9	R-SUM\$WRITE_ERR		
00000B8C	R-SUM\$LIB_ERR		
00000BD1	R-SUM\$SET_SIGNAL		
00000C04	R-LIB\$GET_VM		
00000D8E	R-LIB\$FREE_VM		
00000E68	R-LIB\$STOP		
00000E6E	R-LIB\$SIGNAL		
00000F64	R-LIB\$TPARSE		
00001569	R-LIB\$CVT_DTB		
00001570	R-LIB\$CVT_OTB		
00001577	R-LIB\$CVT-HTB		
000015DA	R-MER_KEY	R-MER_STATE	
00001800	R-SUM\$VIRT_ADDR		
00001804	R-SUM\$FAB		
00001854	R-SUM\$BLSIZE		
000018FC	R-LIB\$\$GL_GETVM_C		
00001900	R-LIB\$\$GL_FREVM_C		
00001904	R-LIB\$\$GL_VMINUSE		
00001A00	R-LIB\$\$IDENT_KEY_TABLE	R-LIB\$\$UIC_KEY_TABLE	
00001A40	R-LIB\$\$IDENT_STATE_TABLE	R-LIB\$\$UIC_STATE_TABLE	
0001827A	RMSS_EOF		
00018292	RMSS_FNF		
0015820C	LIB\$FATERRLIB		
00158214	LIB\$INSVIRMEM		
00158264	LIB\$BADBLOADR		
0015826C	LIB\$BADBLOSIZ		
00158284	LIB\$SYNTAXERR		
0015828C	LIB\$INVTYPE		
7FFEDF48	SYSS\$EXPREG		
7FFEDFF8	SYSS\$SETAST		
7FFEE0E0	SYSS\$PUTMSG		
7FFEE118	SYSS\$SRCHANDLER		
7FFEE170	SYSS\$FIND		
7FFEE180	SYSS\$GET		
7FFEE1B8	SYSS\$CLOSE		
7FFEE1C0	SYSS\$CONNECT		
7FFEE1D0	SYSS\$DISCONNECT		
7FFEE208	SYSS\$OPEN		

Value

7FFEE210
7FFEE278
7FFEE4B0

Symbols...

SYSS\$REWIND
SYSS\$FILESCAN
SYSS\$ASCTOID

Key for special characters above:

*	-	Undefined
U	-	Universal
R	-	Relocatable
X	-	External

+-----+
! Image Synopsis !
+-----+

Virtual memory allocated:
Stack size:
Image header virtual block limits:
Image binary virtual block limits:
Image name and identification:
Number of files:
Number of modules:
Number of program sections:
Number of global symbols:
Number of cross references:
Number of image sections:
Image type:
Map format:
Estimated map length:

00000000 00001BFF 00001C00 (7168. bytes, 14. pages)

0. pages

1.

1. (1. block)

2.

15. (14. blocks)

SUMSHR V04-000

3.

13.

17.

55.

122.

3.

PIC, SHAREABLE. Global Section Match=LESS/EQUAL, Ident, Major=1, Minor=1000
FULL WITH CROSS REFERENCE in file _S255SDUA28:[SUM.LIS]SUMSHR.MAP;1
56. blocks

+-----+
! Link Run Statistics !
+-----+

Performance Indicators

	Page Faults	CPU Time	Elapsed Time
Command processing:	66	00:00:00.40	00:00:00.59
Pass 1:	65	00:00:01.05	00:00:05.85
Allocation/Relocation:	12	00:00:00.23	00:00:00.58
Pass 2:	20	00:00:00.76	00:00:03.35
Map data after object module synopsis:	12	00:00:00.53	00:00:00.63
Symbol table output:	1	00:00:00.07	00:00:00.40
Total run values:	176	00:00:03.04	00:00:11.40

Using a working set limited to 900 pages and 78 pages of data storage (excluding image)

Total number object records read (both passes): 615
of which 309 were in libraries and 12 were DEBUG data records containing 865 bytes

Number of modules extracted explicitly = 6
with 7 extracted to resolve undefined symbols

14 library searches were for symbols not in the library searched

A total of 5 global symbol table records was written

LINK/USERLIB=PROC/NOSYSSHR/SHARE=EXE\$:SUMSHR/MAP=MAP\$:SUMSHR/FULL/CROSS SYSS\$INPUT/OPTIONS

! CLUSTER=ROSECT,,,LIB\$:SUM/INCLUDE=(SUM\$TFRVEC,SUM\$DATA,-
SUM\$LIST,SUM\$OPEN,SUM\$EDIT,SUM\$ERROR)

! COLLECT=ROSECT, LIB\$CODE
COLLECT=RWSECT,SUM\$GLOBAL,SUM\$RW_DATA,_LIB\$DATA

Set match control and major id = 1, and minor = 1000

GSMATCH=LEQUAL,1,1000

Reduce number of image sections by combining PSECTS

PSECT= LIB\$DATA,NOPI
PSECT=SUM\$RO DATA,PIC,SHR,EXE
PSECT=SUM\$CODE,PIC,SHR

0368 AH-BT13A-SE
VAX/VMS V4.0

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